



## Bureau of Environmental Health

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### **Best Available Technology for Nitrogen Removal (BAT) Site Plan Requirements**

The design of the disposal system must conform to the sizing, design, and location requirements set forth in COMAR 26.04.02 and Howard County Code Title 3 Subtitle 8. In addition, the following items must be shown on the plan:

1. Title box with the following title, *Site Plan for BAT Installation*. The title box shall also include the street address, tax identification number, and subdivision name or property owner name(s).
2. The name, address, and telephone number of the owner, developer, and the person preparing the plan.
3. The date the plan was drawn, the plan scale (1:30 – 1:40), and a scaled vicinity map. Scales larger than 1:40 (examples 1:50, 1:100) require scale approval prior to plan submittal.
4. All property lines and dimensions.
5. Show all existing and proposed structures including stormwater management features.
6. All percolation test holes (pass or fail with corresponding test number or letter) and the approved sewage disposal area (SDA).
7. Field run topography at two-foot intervals. One-foot intervals are required for mound systems and systems with pipe depth less than two feet.
8. Illustrate the three (3) proposed well sites or 1500 sq. ft. well box with elliptical radius of 100 feet around each of the three (3) wells or the well box.
9. Illustrate streams, ponds, floodplains, 25% and greater slopes, and any other pertinent land features.
10. Illustrate the locations of all BAT components on the site Plan.
11. Include a cross section and details of all BAT components.
12. Include a profile drawing with all invert elevations necessary for installation.
13. Show the location of the initial absorption system and two replacements with perforated pipe elevations.
14. The designing Professional Engineer or other qualified designer must sign the plan.
15. Low pressured dosed systems or other pumped systems must include pump station details including:
  - a. Total dynamic head calculations

b. Pump curve

c. Pump on, pump off, and alarm elevations

**Required BAT Site Plan Notes**

1. Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
2. The maximum depth of the BAT per the manufacturer's specification is \_\_\_\_\_ feet.
3. The blower may not be located more than \_\_\_\_\_ feet from the tank based on the manufacturer's specifications.
4. The BAT system shall be maintained and operated for the life of the system.
5. The BAT shall be operated by and maintained by a certified service provider.
6. Within one month of installation, a person installing the BAT system shall report to the Maryland Department of the Environment (MDE) in a manner acceptable to MDE, the address and date of completion of the BAT installation and the type of BAT installed.
7. Electrical work for the BAT installation must be performed by a licensed electrician.
8. An Agreement and Easement must be completed and signed by all applicable parties, and recorded in Land Records of Howard County.
9. The Health Department requires documentation for the start-up certification from the manufacturer prior to final approval of the installation.